

EVO Gateway

AUTH/PURCHASE/VERIFY (Direct API Integration) Version 6.2 3DS V2.x, July 13, 2021

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The purpose of this document is to describe the AUTH/PURCHASE/VERIFY (Direct API Integration) API Operation to enable merchant developers to integrate their webpages with the EVO Gateway. Refer to the EVO Gateway -0 – Overview document for how this API Operation is used in the merchant processes.

The AUTH/PURCHASE/VERIFY (Direct API Integration) API Operation allows the merchant using the Direct API Integration Method to send customer authorise and purchase payment card transactions, or payment card details for verification through the EVO Gateway.

PSD2, SCA & 3DSV2.x Considerations

Changes to the Payment Services Directive (PSD2), embodied in Strong Customer Authentication (SCA) and the updated Third Domain Secure Version 2.1 & 2.2 (3DSV2.x), have added to the data required by Card Schemes. Issuers, Acquirers and Payment Service Providers (PSPs), including the EVO Gateway have been upgrading their systems to take account of the new data requirements.

The one overriding change to card payment transactions that should be understood by all merchants is that all card payment transactions will now be processed through 3DS Authentication. Therefore, merchants will not be able to switch off Authentication processing, except under exceptional circumstances agreed with the Acquirer.

The new data requirements are primarily focussed on providing improved security to the cardholder in the prevention of fraud and card misuse.

Therefore, additional data parameters are provided for in the Session Token Request (section 1.1). In addition, the requirements for some existing parameters have changed in that some parameters that were optional are now mandatory for 3DSV2.x processing. The failure to provide these parameters will automatically channel the transaction through the current 3DS Version 1.0 authentication method.

At the time of writing, it is not known when 3DS Version 1.0 will be retired. Although the Card Schemes have stated that it will be retired, they have not yet provided and firm indication of when this may happen.

To assist the merchant's business analysis of the Session Token Request (section 1.1), the parameters have been grouped with heading rows to provide an overview of those parameters.

To assist the development of integration the new and changed parameters have been shaded in green.

Note: as much information should be supplied as is available to the merchant to assist the Issuer with providing a Frictionless Flow, i.e. to authenticate a payment card transaction without the need to challenge the cardholder.



Version	Date	Author	Description of Change
5.0	21/04/20	Vaughan Morgan-Jones	Section 2.1.2: SCA/3DS V2.x parameters added
5.1	25/05/20	Vaughan Morgan-Jones	Section 2.1.2:
5.2	12/06/20	Vaughan Morgan-Jones	Section 2.1.2: Changes made to External Authentication parameters to provide enumerated values for protocolVersion and require the data for all MPIs, not just Redsys.
5.3	07/07/20	Vaughan Morgan-Jones	Section 2.1.2: • sdkAppInfo: Added to support App Flow • cardOnFileInitialTransactionId: Added note
5.4	24/07/20	Vaughan Morgan-Jones	Section 1.1: Added <i>mmrpOrderNumber</i> Corrupted document rebuilt
5.5	03/09/20	Vaughan Morgan-Jones	Section 1.1: Removed values 07 & 08 from merchantChallengeInd
5.6	15/09/20	Vaughan Morgan-Jones	 Section 1.1: Changed rules for customer address data Added "Condition: Required for 3DSV2.x unless market or regional mandate restricts sending this information." to Customer Address & IP Address parameters Removed all references to Quick Sales, which are not offered in the EU
5.7	17/09/20	Vaughan Morgan-Jones	Section 1.1.2: Changed rpDueDate = 0 when rpFrequency = 20 & 23
5.8	23/09/20	Vaughan Morgan-Jones	Section 1.1.2: Changed Requirement for merchantNotificationUrl to 'N'
5.9	12/11/20	Vaughan Morgan-Jones	Section 1.1.2:
6.0	06/05/21	Vaughan Morgan-Jones	Section 1.1.2:
6.1	07/05/21	Vaughan Morgan-Jones & Vadym Muylar	For Banamex (EVO MX) merchants only Section 1.1.2: Changes to "mmrp" parameters for Recurring Instalment Payments – see parameter section description: • mmrpBillPayment: Added "RecurringInstallment" • mmrpCustomerPresent: Updated Condition • mmrpOriginalMerchantTransactionId: Updated Condition – not required for EVO MX • mmrpContractNumber: Updated Condition • mmrpRecurringExpiry: Updated Condition – not required for EVO MX • mmrpRecurringFrequency: Updated Condition – not required for EVO MX • mmrpCurrentTotalNumberOfInstallments: Added • mmrpCurrentInstallmentNumber: Added



Version	Date	Author	Description of Change
6.2	13/07/21	Vaughan Morgan-Jones	Document rebranded to EVO Gateway External Authentication Provision Section 1.1.2: Reduced External Authentication parameters to a JSON Object Added the text "Not required if externalAuthentication object is provided" to the following parameters: merchantChallengeInd merchantDecReqInd merchantDecMaxTime customerBrowser sdkAppInfo customerAccountInfo Additional Authentication Data Appendix I: Added For EVO PL merchants only in Poland, Czech Rep., Slovakia, Romania and Hungary, using in MassPayments: Section 1.1.2: virtualAccountNumber added

1 Session Token API Operation

1.1 Session Token Request

1.1.1 Format

POST Request to Session Token Request URL (see Section 3 of the EVO Gateway – 0 – Overview document)

1.1.2 Definition

Parameter	Data Type	Required	Description			
Security Data						
Mandatory to identify the merchant in the E	VO Gateway					
merchantId	Integer (18)	Υ	The merchant's account identifier for the merchant in the EVO Gateway provided at on-boarding			
password	String (64)	Υ	The merchant's account password for API Operations in the EVO Gateway provided at on-boarding			
<u>Transaction Data</u>						
The Transaction Data defines the type of tra	nsaction the mer	chant is requ	esting the EVO Gateway to perform, how the transaction result will be managed, and complimentary data			
required by the Authentication and Authoris	sation Processes.					
The transaction result can be the Authentica	tion or Authorisa	tion respons	e.			
			Must be "AUTH", "PURCHASE" or "VERIFY"			
			For Recurring Payments, i.e. where <i>rpPlanType</i> > 0			
action	String (enum)	Υ	"AUTH" or "PURCHASE" can be used for any <i>rpPlanType</i>			
			"VERIFY" can only be used for rpPlanType = 2 (Direct Debit) or 4 (Pay Per Use)			
			In the case of free-trial period for Pay Per Use Plan Types, or deferred first payment for Direct Debits			
			A flag to indicate if the transaction is the customer's first.			
firstTimeTransaction	Boolean	N	For some merchant configurations, this forces 3D Secure processing.			
			Note : if a <i>customerId</i> value is not provided, first-time transaction is assumed			
timestamp	Integer (13)	Υ	Milliseconds since 1970-01-01 00:00:00			



Parameter	Data Type	Required	Description
merchantChallengeInd	String (enum)	N	Merchant Challenge Indicator: Indicates whether the merchant is requesting a challenge for this transaction, for local/regional mandates or other reasons. It is highly recommended that this parameter is supplied, even if there is no preference ('01') For example: for Payment Authorisations (action = 'AUTH' or 'PURCHASE'), a merchant may have concerns about the transaction, and request a challenge. Some EVO Gateway rules will override a merchant's requirement not to challenge the cardholder: 1. A challenge will always be requested for Non-Payment Authorisations (action = 'VERIFY') 2. A challenge will always be requested for cardOnFileType = 'First' 3. A challenge may be requested for if the Acquirer's Transaction Risk Analysis has been performed and requires a challenge request Values accepted: 01 = No preference — Default if parameter not provided 02 = No challenge requested 03 = Challenge requested (merchant preference) 09 = Challenge requested - the merchant requests a whitelist prompt if a challenge is required Note: Values '04', '05', '06', '07', '08' and are reserved for EVO Gateway use Netcetera Constraint: Value '09' is only available when Netcetera initiates authentication with EMV 3DS 2.2.0 version or greater. In this instance, the threeDSPreferredProtocolVersion and enforcethreeDSPreferredProtocolVersion parameters should be set appropriately
merchantDecReqInd	String (enum)	N	Merchant Decoupled Request Indicator: Indicates whether the merchant requests the Issuer to utilise Decoupled Authentication and agrees to utilise Decoupled Authentication if the Issuer confirms its use. Values accepted: Y = Decoupled Authentication is supported and preferred if challenge is necessary N = Do not use Decoupled Authentication - Default if not provided Netcetera Constraint: Parameter is only available when Netcetera initiates authentication with EMV 3DS 2.2.0 version or greater. In this instance, the threeDSPreferredProtocolVersion and enforcethreeDSPreferredProtocolVersion parameters should be set appropriately



Parameter	Data Type	Required	Description
merchantDecMaxTime	Integer (5)	N	Merchant Decoupled Request Maximum Wait Time: Indicates the maximum amount of time that the merchant will wait for an Issuer to provide the results of a Decoupled Authentication transaction (in minutes). Valid values are between 1 and 10080. If not provided, it is expected that the Issuer will use 10080 minutes (7 days) as a default. Netcetera Constraint: Parameter is only available when Netcetera initiates authentication with EMV 3DS 2.2.0 version or greater. In this instance, the threeDSPreferredProtocolVersion and enforcethreeDSPreferredProtocolVersion parameters should be set appropriately
channel	String (enum)	Y	The transaction channel through which the payment was taken: "ECOM" for card present e-commerce type transactions that are customer initiated, usually through a website checkout screen "MOTO" for card not present transactions that are merchant initiated, usually through a virtual terminal type application developed by the merchant
country	String (enum)	Υ	The ISO alpha-2 code country in which the transaction takes place, as defined in the ISO 3166 standard If this is not known or unavailable, the customerAddressCountry will be used.
allowOriginUrl	String (256)	Y	The merchant's URL that will make the Auth/Purchase/Verify Request (see Section 2.1) This will usually be the URL of the customer's browser. Cross-Origin Resource Sharing (CORS) headers will allow only this origin
merchantNotificationUrl	String (200)	N	The merchant's server-to-server communications URL, to which the Transaction Result Call will be sent It is highly recommended that this parameter is provided, so that the merchant receives a timely result of the payment authentication and authorisation in the Transaction Result Call. If not provided, no immediate notification will be sent to the merchant. The transaction result will be shown in the EVO Gateway Back-Office or it can be retrieved using the GET STATUS API Operation.
merchantLandingPageUrl	String (200)	N	The URL to which the customer's browser is redirected for success or failure messaging
merchantLandingPageRedirectMethod	String (enum)	N	Determines the method by which the customer is redirected to merchantLandingPageUrl Values accepted: 'POST' – Default if omitted 'GET'

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		AUTH/	PURCHASE/VERIFY (Direct API integration)			
Parameter	Data Type	Required	Description			
External Authentication The following object is provided for merchants to provide authentication data where a transaction has been 3DS authenticated before being sent to the EVO Gateway Provision of this data allows the EVO Gateway to send the transaction straight to Payment Authorisation. The EVO Gateway will not validate the values or attempt to determine whether the merchant's Authentication process completed successfully Merchants should generally only make application for payment authorisation if the cardholder authentication was successful, i.e. Transaction Status was 'Y', 'A' or 'I', although some 'U' & 'N' conditions may be accepted by the Issuer.						
externalAuthentication	JSON Object	С	Information received from an authentication service prior to sending the payment request to the EVO Gateway. If the merchant does not use the EVO Gateway's authentication service, then all the parameters in this object must be provided. The EVO Gateway will check for completeness of the data provided, not for the values contained. If this object is correctly provided, no other 3DS parameters are required. These parameters are duly marked. Format: "externalAuthentication": { "authenticationValue": ", "protocolVersion": ", "threeDSServerTransId": ", "acsTransId": ", "acsTransId": ", "authenticationType": ", "authenticationFlow": ", "authenticationFlow": ", "transStatus": ", "authenticationDateTime": " See Appendix I - externalAuthentication Data Elements Definition for the data elements' definitions.			



▼			PURCHASE/VERIFY (Direct API Integration)
Parameter	Data Type	Required	Description
Payment Method Data The Payment Method Data defines ho The action = 'VERIFY' can only be perfe The following parameters are required • paymentSolutionId = 500 • specinCreditCardToken	ormed on payment card		to pay for an Authorisation or Purchase (action = 'AUTH' or 'PURCHASE')
paymentSolutionId	Integer (18)	N	The EVO Gateway Payment Solution Identifier See EVO Gateway – 7 – GET AVAILABLE PAYMENT SOLUTIONS for valid values
specin Credit Card Token	String (100)	С	The payment card token received in the TOKENIZE API Operation, see EVO Gateway – 1 – TOKENIZE document Conditions: 1. This parameter is required for Card Payments 2. For OneClick transactions this must be the data.oneClickPaymentMethods.payToken returned in the Get OneClick Payment Methods Response – Processed
specin Process Without Cvv 2	Boolean	N	A flag that indicates whether the payment card transaction is to be processed with or without the Card Verification Value [CVV]. The CVV is provided in the <i>specinCreditCardCVV</i> parameter in the Auth/Purchase/Verify Request (Section 2.1). If not provided, a true value is assumed. If the <i>specinCreditCardCVV</i> parameter is then not provided, the Auth/Purchase/Verify Request will be rejected by the EVO Gateway. This requires prior authorization by the EVO Gateway and acquirer. Note: The CVV is also known as Card Security Code (CSC), Card Verification Data [CVD], Card Verification Number, Card Verification Value Code, Card Verification Code [CVC], Verification Code [V-code or V code], or Signature Panel Code [SPC])
forceSecurePayment	Boolean	С	For payment card transactions only, if the merchant has 3D Secure disabled for all transactions as a rule, this field can be used to force 3D Secure processing for individual transactions: • If True: forces 3D Secure processing no matter the routing rules • If False, not provided or NULL: the 3D Secure routing rules in the EVO Gateway are used If 3D Secure processing is required, the 3DS Redirection Response (section 2.2) is sent Condition • This parameter is only valid for 3DS Version 1.0. In 3DS Version 2.x processing, the merchantChallengeInd is used to determine the merchant's preference for Authentication processing • If cardOnFileType = "Repeat" the forceSecurePayment parameter should be omitted. If it is included with any value (true, false, or empty) the parameter will be ignored
processUnknownSecurePayment	Boolean	N	Determines how 3DSV1.0 Authentication Response "U" (Unknown) value is processed: If True and 'U' is returned: a Session Token Response – Not Processed (section 1.3) is returned If 3DS Version 2.x Authentication is used, this parameter is ignored. The processing of the 'U' Authentication response is determined by the transaction status reason provided in the 3DS Authentication process.



Parameter	Data Type	Required	Description
Merchant Transaction Data	Data Type	Required	Description -
	ation about the m	nerchant's ba	ank account, information needed to recognise the merchant in the acquirer and settlement systems, and data
that the merchant wants to add to the trans			
			The merchant's reference for the transaction. If the parameter is empty or omitted, a reference will be
we a wake a wat Tool of	Ctuin = (FO)	N.	generated by the EVO Gateway as a hexadecimal string, and returned in the transaction responses
merchantTxId	String (50)	N	It is highly recommended that a value is supplied to reconcile transactions in the EVO Gateway with the
			merchant's own order management system
onersterId	C+ring (20)	N	Identifier of the merchant's operator or agent on behalf of the end customer, if the operation is not
operatorId	String (20)	N	performed by the merchant, and the merchant wants to track the operator who performed the transaction
brandid	Integer (10)	N	The EVO Gateway Brand Id for the merchant's goods or services that was supplied at on-boarding
brandId	Integer (18)	N	If not provided the merchant's default EVO Gateway Brand Id will be used
hankMid	String (EO)	N	The merchant's Bank MID with the Acquirer.
bankMid	String (50)	IN	Used by the merchant to control which acquirer bank MID will be used for the transaction.
limith dia	BigDecimal	N	Sets a minimum transaction value allowed to be processed in the EVO Gateway
limitMin	(15.2 or 15.3)	N	This overrides the minimum value set in the EVO Gateway merchant configuration
limitMax	BigDecimal	N	Sets a maximum transaction value allowed to be processed in the EVO Gateway
IIIIILIVIAX	(15.2 or 15.3)	IN	This overrides the maximum value set in the EVO Gateway merchant configuration
freeText	String (200)	N	A free text field for use by the merchant that is returned in the Transaction Result Call (see EVO Gateway - 6 -
Пеетехі		IN	TRANSACTION RESULT CALL)
customParam1_OR customParam20_OR	String (50)	N	20 Text Fields that used by merchants to reconcile transactions performed through mobile applications with
			results from the acquirer. Currently only available for EVO Poland merchants.
s_text1, s_text2 s_text5	String (200)	N	5 Text fields for general use
d_date1, d_date2 d_date5	Date/Time	N	5 Date fields for general use.
			Format: DD/MM/YYYY hh:mm:ss – the time part can be omitted, resulting in 00:00:00
b_bool1, b_bool2 b_bool5	Boolean	N	5 Boolean fields for general use – accepted values are "true" and "false"
n_num1, n_num2 n_num5	BigDecimal	N	5 Numeric fields for general use – a dot "." must be used as a decimal separator, not the comma "," and a
11_11d1111, 11_11d1112 11_11d1113	(7.2)	N	thousand separator must not be used
			For EVO PL merchants only in Poland, Czech Rep., Slovakia, Romania and Hungary, using in MassPayments
I			An IVAN (Individual Virtual Account Number) is an account number managed by the merchant to identify and
			route payments for their customers in the payment process.
			Although marked as not required in the EVO Gateway, the IVAN is mandatory for all merchants participating in
			the Mass Payments scheme. Failure to provide a valid IVAN will result in the transaction being rejected.
virtualAccountNumber	String (20)	A.	Format: {merchant part}{customer part}
viituaiAccountivumbei	String (30)	N	Where:
			{merchant part} is set by the merchant's bank
			{customer part} is set by the merchant
			For each country the specific formats are different. The EVO Gateway will only validate the {merchant part},
ı			as this is stored against the merchant record in the on-boarding process. The provision of the value when on-
			boarded indicates that the merchant is participating in Mass Payments.



Data Type Required Description	AUTH/PURCHASE/VERIFY (Direct API Integration)					
The Customer Browser/App/Device Data is required to support Strong Customer Authentication (SCA) and 3DS V2.x when an Authentication Challenge (3DS) is required. Although the parameters are non-mandatory in the initial release, as much information should be supplied as is available. This will enable card issuers to provide more Frictionless Flows in the Authentication processes, where the cardholder is not challenged during the transaction. Type of device used, accepted values: "MOBILE" "MOBILE"	Parameter	Data Type	Required	Description		
Although the parameters are non-mandatory in the initial release, as much information should be supplied as is available. This will enable card issuers to provide more Frictionless Flows in the Authentication processes, where the cardholder is not challenged during the transaction. UserDevice String (enum) C String (authentication will be used Browser User-Agent: Exact content of the HTTP user-agent header from the browser in which the transaction was performed Note: If the total length of the User-Agent sent by the browser exceeds 2048 characters, the excess content will be truncated. Conditions: Required for 3DSV2.x. If not supplied, 3DSV1.0 Authentication will be used Required if customerBrowser.browserJavascriptEnabled = true Browser IP Address: IP address of the customer's browser, where the transaction is initiated, as returned by the HTTP headers to the merchant Value accepted: IPv4 address is represented in the dotted decimal format of 4 sets of decimal numbers separated by dots. The decimal number in each and every set is in the range 0 to 255. Example IPv4 address: 1.12.123.255 Note: IPv6 address is not yet supported by the EVO Gateway	Customer Browser/App/Device Data					
in the Authentication processes, where the cardholder is not challenged during the transaction. User Device String (enum) C Type of device used, accepted values: "MOBILE" "DESKTOP" Condition: Required for 3DSV2.x. If not supplied, 3DSV1.0 Authentication will be used Browser User-Agent: Exact content of the HTTP user-agent header from the browser in which the transaction was performed Note: If the total length of the User-Agent sent by the browser exceeds 2048 characters, the excess content will be truncated. Conditions: Required for 3DSV2.x. If not supplied, 3DSV1.0 Authentication will be used Required for 3DSV2.x. If not supplied, 3DSV1.0 Authentication will be used Required if customerBrowser.browserJavascriptEnabled = true Browser IP Address: IP address of the customer's browser, where the transaction is initiated, as returned by the HTTP headers to the merchant Value accepted: IPv4 address is represented in the dotted decimal format of 4 sets of decimal numbers separated by dots. The decimal number in each and every set is in the range 0 to 255. Example IPv4 address: 1.1.21.23.255 Note: IPv6 address is not yet supported by the EVO Gateway	The Customer Browser/App/Device Data is	required to suppo	rt Strong Cu	stomer Authentication (SCA) and 3DS V2.x when an Authentication Challenge (3DS) is required.		
Type of device used, accepted values: "MOBILE" "DESKTOP" Conditions: userAgent String (2048) C String (2048) String (2048) C String (2048) C String (2048) String (2048) C String (2048) C String (2048) String (2048)	Although the parameters are non-mandator	ry in the initial rele	ease, as muc	h information should be supplied as is available. This will enable card issuers to provide more Frictionless Flows		
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was performed Note: If the total length of the User-Agent sent by the browser exceeds 2048 characters, the excess content will be truncated. Conditions: Required for 3DSV2.x. If not supplied, 3DSV1.0 Authentication will be used Required if customerBrowser.browserJavascriptEnabled = true Browser IP Address: IP address of the customer's browser, where the transaction is initiated, as returned by the HTTP headers to the merchant Value accepted: IPv4 address is represented in the dotted decimal format of 4 sets of decimal numbers separated by dots. The decimal number in each and every set is in the range 0 to 255. Example IPv4 address: 1.12.123.255 Note: IPv6 address is not yet supported by the EVO Gateway				Browser User-Agent: Exact content of the HTTP user-agent header from the browser in which the transaction		
Note: If the total length of the User-Agent sent by the browser exceeds 2048 characters, the excess content will be truncated. Conditions: Required for 3DSV2.x. If not supplied, 3DSV1.0 Authentication will be used Required if customerBrowser.browserJavascriptEnabled = true Browser IP Address: IP address: IP address of the customer's browser, where the transaction is initiated, as returned by the HTTP headers to the merchant Value accepted: IPv4 address is represented in the dotted decimal format of 4 sets of decimal numbers separated by dots. The decimal number in each and every set is in the range 0 to 255. Example IPv4 address: 1.12.123.255 Note: IPv6 address is not yet supported by the EVO Gateway		String (2048)				
userAgent String (2048) Conditions: Required for 3DSV2.x. If not supplied, 3DSV1.0 Authentication will be used Required if customerBrowser.browserJavascriptEnabled = true Browser IP Address: IP address of the customer's browser, where the transaction is initiated, as returned by the HTTP headers to the merchant Value accepted: IPv4 address is represented in the dotted decimal format of 4 sets of decimal numbers separated by dots. The decimal number in each and every set is in the range 0 to 255. Example IPv4 address: 1.12.123.255 Note: IPv6 address is not yet supported by the EVO Gateway			С			
Conditions: Required for 3DSV2.x. If not supplied, 3DSV1.0 Authentication will be used Required if customerBrowser.browserJavascriptEnabled = true Browser IP Address: IP address of the customer's browser, where the transaction is initiated, as returned by the HTTP headers to the merchant Value accepted: IPv4 address is represented in the dotted decimal format of 4 sets of decimal numbers separated by dots. The decimal number in each and every set is in the range 0 to 255. Example IPv4 address: 1.12.123.255 Note: IPv6 address is not yet supported by the EVO Gateway	userAgent					
Required if customerBrowser.browserJavascriptEnabled = true Browser IP Address: IP address of the customer's browser, where the transaction is initiated, as returned by the HTTP headers to the merchant Value accepted: IPv4 address is represented in the dotted decimal format of 4 sets of decimal numbers separated by dots. The decimal number in each and every set is in the range 0 to 255. Example IPv4 address: 1.12.123.255 Note: IPv6 address is not yet supported by the EVO Gateway	and a gent			Conditions:		
Required if customerBrowser.browserJavascriptEnabled = true Browser IP Address: IP address of the customer's browser, where the transaction is initiated, as returned by the HTTP headers to the merchant Value accepted: IPv4 address is represented in the dotted decimal format of 4 sets of decimal numbers separated by dots. The decimal number in each and every set is in the range 0 to 255. Example IPv4 address: 1.12.123.255 Note: IPv6 address is not yet supported by the EVO Gateway				 Required for 3DSV2.x. If not supplied, 3DSV1.0 Authentication will be used 		
the HTTP headers to the merchant Value accepted: IPv4 address is represented in the dotted decimal format of 4 sets of decimal numbers separated by dots. The decimal number in each and every set is in the range 0 to 255. Example IPv4 address: 1.12.123.255 Note: IPv6 address is not yet supported by the EVO Gateway						
C Value accepted: IPv4 address is represented in the dotted decimal format of 4 sets of decimal numbers separated by dots. The decimal number in each and every set is in the range 0 to 255. Example IPv4 address: 1.12.123.255 Note: IPv6 address is not yet supported by the EVO Gateway				Browser IP Address: IP address of the customer's browser, where the transaction is initiated, as returned by		
customerIPAddress String (45) C separated by dots. The decimal number in each and every set is in the range 0 to 255. Example IPv4 address: 1.12.123.255 Note: IPv6 address is not yet supported by the EVO Gateway				the HTTP headers to the merchant		
customerIPAddress String (45) C separated by dots. The decimal number in each and every set is in the range 0 to 255. Example IPv4 address: 1.12.123.255 Note: IPv6 address is not yet supported by the EVO Gateway				Value accepted: IPv4 address is represented in the dotted decimal format of 4 sets of decimal numbers		
1.12.123.255 Note: IPv6 address is not yet supported by the EVO Gateway	customerIPAddress	String (45)	С	·		
				Note: IPv6 address is not yet supported by the EVO Gateway		
				Condition : Required for 3DSV2.x unless market or regional mandate restricts sending this information.		

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Parameter	Data Type	Required	Description
customerBrowser	JSON Object	C	Customer Browser Information: Information about the customer's browser that is required by the 3DS Process to facilitate the Challenge Flow, if required. Accurate Browser Information is required for an Issuer to determine the ability to support authentication on a particular Cardholder browser for each transaction. The data must be unique to each transaction. This data can be provided to the merchant on request or through for example, remote JavaScript calls. Format: "customerBrowser": { "browserAcceptHeader": ", "browserJavaScriptEnabled": ", "browserJavaScriptEnabled": ", "browserColorDepth": ", "browserScreenHeight": ", "browserScreenWidth": ", "browserTZ": " } Condition: This object is mandatory for 3DS V2.x; if not provided 3DS V1.0 will be applied See Appendix C - customerBrowser Data Elements Definitions for the data elements' definitions.
sdkAppInfo	JSON Object	С	Mobile Application Information: Information about the mobile application installed on the customer's device that is required by the 3DS Process to facilitate the Challenge Flow, if required. Accurate App Information is required for an Issuer to determine the ability to support authentication on a particular Cardholder device for each transaction. The data must be unique to each transaction. Format: "sdkApp": { "sdkAppid":" ", "sdkPublicKey":" ", "sdkPublicKey":" ", "sdkReferenceNumber":" ", "sdkTransactionId":" ", "sdkInterface":" ", "sdkUiType":" " } Condition: This object is mandatory for 3DS V2.x; if not provided 3DS V1.0 will be applied See Appendix D - sdkAppInfo Data Element Definitions for the data elements' definitions.



76 Thy Order September 27 Vermin (Breece, Willings action)							
Parameter	Data Type	Required	Description				
Transaction Amount Data							
Transaction Amount Data provides the values of the sale.							
			The total transaction amount, including tax, shipping, surcharge and discount amounts				
	DiaDosimal		Conditions:				
amount	BigDecimal	С	If action = "AUTH" or "PURCHASE", if a value is supplied this must be > 0.00				
	(15.2 or 15.3)		If action = "VERIFY", this must be 0.00 or omitted				
			See Appendix A - UAT Trigger Values				
currency	String (enum)	Υ	The ISO alpha-3 code for the currency as defined in the ISO 4217 standard				
tavAmaunt	BigDecimal	N	Tax amount as a currency value (not percentage)				
taxAmount	(15.2 or 15.3)	IN	If action = "VERIFY", this must be 0.00 or omitted				
shinning Amount	BigDecimal	N	Shipping amount				
shippingAmount	(15.2 or 15.3)	IN	If action = "VERIFY", this must be 0.00 or omitted				
sharge Amount	BigDecimal	N	Surcharge amount				
chargeAmount	(15.2 or 15.3)	N	If action = "VERIFY", this must be 0.00 or omitted				
discount Amount	BigDecimal	N	Discount amount				
discountAmount	(15.2 or 15.3)	IN	If action = "VERIFY", this must be 0.00 or omitted				



Parameter	Data Type	Required	Description
1 didilictei	Data Type	ricquircu	Description

Customer Personal Data

Customer Personal Data identifies the customer involved in the transaction. The supply and storage of this data is subject to regional restrictions (such as GDPR in the EU). Although all fields are non-mandatory, the minimum data that should be supplied are *customerFirstName* and *customerLastName*, which will allow the merchant to easily identify transactions for their customers in the EVO Gateway Back-Office Transactions Lists.

Conditional Parameters:

3DS V2.x requires these parameters "unless market or regional mandate restricts sending this information".

Therefore it is the merchant's responsibility to assess whether they are able or not able to send this information.

'Market or regional mandate' also covers situations where the merchant's own processes do not require this data to be captured, as well as for regulatory restrictions such as GDPR.

However, it is highly recommended, if possible, to send this data, if it is available, to enable card issuers to immediately authenticate a transaction – Frictionless Flow Enabling a Frictionless Flow is not solely dependent on these parameters. but the issuers' decision are enabled with more information

customerFirstName	String (50)	С	First name of the customer Condition: See above statement	
customerLastName	String (100)	С	Last name, surname or family name of the customer Note: This parameter can contain the full name of the customer, if the merchant processes do not capture name elements separately Condition: See above statement	
customerSex	String (enum)	Customer sex: N • M (male) • F (female)		
customerDateOfBirth	Date	Ν	Customer date of birth – format DD/MM/YYYY	
customerEmail	String (80)	С	Customer email address Condition: See above statement	
customerPhone	String (100)	С	Customer phone number Condition: See above statement	
customerDocumentType	String (enum)	N	Type of document used to confirm the customer's identification EVO Gateway accepted values: PASSPORT NATIONAL_ID DRIVING_LICENSE UNIQUE_TAXPAYER_REFERENCE OTHER	
customerDocumentNumber	String (30)	С	Customer document number Condition: Mandatory if customerDocumentType provided	



Parameter	Data Type	Required	Description
customerDocumentState	String (enum)	С	For EVO US Sales Channel Merchants only, the alpha-2 code for the State that issued the Driver's Licence. Condition: Mandatory if merchant Sales Channel is 'EVOUS' and customerDocumentType = 'DRIVING_LICENSE' and if country = 'US' alpha-2 code for the US State that issued the licence – see Section B.1 'CA' alpha-2 code for the Canadian State that issued the licence – see Section B.2 'MX' alpha-2 code for the Mexican State that issued the licence – see Section B.3 Else set to NULL
Paver Data			

The payer data is required by some regions and payment services, e.g. PayU Latam in Brazil, and so should only be completed if required by regulation.

This data is not used to differentiate between the customer and someone else paying for the transaction.

No checking or validation is performed by the EVO Gateway.

payerFirstName	String (50)	N	Payer first name, if the Payee is different to the Customer	
payerLastName	String (100)	N	Payer last name, if the Payee is different to the Customer	
payerEmail	String (80)	Ν	Payer email, if the Payee is different to the Customer	
payerDateOfBirth	Date	N	Payer date of birth, if the Payee is different to the Customer	
payerPhone	String (100)	Ν	Payer phone, if the Payee is different to the Customer	
payerDocumentType	String (enum)	N	Type of document used to confirm the payer's identification, if the Payee is different to the Customer EVO Gateway accepted values: PASSPORT NATIONAL_ID DRIVING_LICENSE UTR OTHER	
payerDocumentNumber	String (30)	С	Payer document number, if the Payee is different to the Customer Condition: Mandatory if payerDocumentType provided Customer identifier of the payee in the merchant's system Condition: Required if the payee is also a customer of the merchant	
payerCustomerId	String (20)	С		



	AOTH/FORCHASE/VERH 1 (bilect AFT integration)					
Parameter	Data Type	Required	Required Description			
	— Gateway to supple		ansaction data to support Frictionless Flows in Strong Customer Authentication (SCA) and 3DS V2.x. his information is available. Although individual data elements are optional, as much available information			
customerId	String (20)	N	Customer identifier in the merchant system or the value generated by the EVO Gateway in the TOKENIZE API Operation (see the EVO Gateway – 1 – TOKENIZE document). If supplied, this must be the value supplied in or by the TOKENIZE API Operation. The value is used to validate that the payment card token is for the correct customer. If the customerId value is not the same held against the payment card token the payment request will not be processed. If the parameter is omitted: • For payment cards the value stored during the TOKENIZE Operation will be used • For Alternate Payment Methods a value will be generated by the EVO Gateway			
merchantReference	String (200)	N	Merchant's supplementary information about customer Note: this information is only stored in the EVO Gateway, and not used in the payment process			
customer Registration Date	Date	N	Customer registration date on merchant's site – format DD/MM/YYYY This parameter is optional, but it is recommended that it is provided if the information is available. Notes: 1. Used in the 3DS V2.x Authentication process as part of the customerAccountInfo 2. Used for reporting and in some risk tools where required			

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Parameter	Data Type	Required	Description
customerAccountInfo	JSON Object	-	Customer Account Information: Additional information about the Cardholder's account provided by the merchant. This parameter is optional, but it is recommended that it is provided if the information is available. Format: "customerAccountInfo": { "custAccAgeInd":" ", "custAccChange":" ", "custAccPwChange!":" ", "custAccPwChange!":" ", "custPurchaseCount!": ", "custProvisionAttemptsPerDay":" ", "custTxnActivityDay":" ", "custTxnActivityVear":" ", "custPaymentAccAge":" ", "custPaymentAccInd!": ", "custPaymentAccInd!": ", "custShipAddressUsage!": ", "custShipAddressUsage!": ", "custShipNameIndicator":" ", "custSuspiciousAccActivity":" ", "custSuspiciousAccActivity":" ",
			See below for the data elements' definitions. Note : Cardholder Account Information data elements used to define a time period can be included as either the specific date or an approximate indicator for when the action occurred. Merchants can use either parameter, e.g. use <i>chAccAgeInd</i> or <i>chAccChange</i> , using both is unnecessary. See Appendix E - customerAccountInfo Data Elements Definitions for the data elements' definitions.

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Parameter	Data Type	Required	Description
Taranicter	Duta Type	ricquircu	Description

Customer Address Data

Customer address data are required for 3DSV2.x Authentication unless market or regional mandate restricts sending this information.

If address is included, at least one of customerAddressHouseName, customerAddressHouseNumber or customerAddressFlat should be provided.

The customerBillingAddress and customerShippingAddress parameters are marked as Not Require (N) to allow for merchant flexibility in their data encoding:

- 1. If customerBillingAddress data are omitted, the customerAddress data will be used for the customer billing address
- 2. If customerShippingAddress data are omitted, the customerAddress data will be used for the customer shipping address

Therefore:

- A. To use the customerAddress parameters as the customer's billing and shipping address, omit the customerBillingAddress and customerShippingAddress parameters
- B. To use the customerBillingAddress as the customer's shipping address, but different to the customerAddress values, complete the customerShippingAddress parameters with the same data
- C. To use the customerAddress parameters as the customer's billing address and have a different shipping address, omit the customerBillingAddress and complete the customerShippingAddress parameters
- D. To use the *customerAddress* parameters as the customer's shipping address and have a different billing address, omit the *customerShippingAddress* and complete the *customerBillingAddress* parameters

Conditional Parameters:

3DS V2.x requires these parameters "unless market or regional mandate restricts sending this information".

Therefore it is the merchant's responsibility to assess whether they are able or not able to send this information.

'Market or regional mandate' also covers situations where the merchant's own processes do not require this data to be captured, as well as for regulatory restrictions such as GDPR.

However, it is highly recommended, if possible, to send this data, if it is available, to enable card issuers to immediately authenticate a transaction – Frictionless Flow Enabling a Frictionless Flow is not solely dependent on these parameters, but the issuers' decision are enabled with more information

customerAddressHouseName	String (50)	С	Customer correspondence address house name
	J ,		Condition: See above statement
customerAddressHouseNumber	String (5)	_	Customer correspondence address house number
CustomerAddressHouseNumber	String (3)		Condition: See above statement
customerAddressFlat	String (E)	_	Customer correspondence address flat
CustomerAddressFlat	String (5)	C	Condition: See above statement
			Customer correspondence address street
customerAddressStreet	Ct.: (EQ)	С	The customer's street should be supplied whenever possible as it is used with the customerAddressPostalCode
	String (50)		value for AVS (Address Verification System) Checks, and so reduce the possibility of a payment decline
			Condition: See above statement
austamar Addrass City	String (FO)	С	Customer correspondence address city
customerAddressCity	String (50)		Condition: See above statement
customerAddressDistrict	String (50)	N	Customer correspondence address district
sustamer Address Destal Code	Ctring (20)		Customer correspondence address postal code
customerAddressPostalCode	String (30)	C	Condition: See above statement
		С	Customer correspondence address country: The ISO alpha-2 code as defined in the ISO 3166 standard
customerAddressCountry	String (enum)		Note: this will be used if <i>country</i> field is not supplied
·	,		Condition: See above statement



Parameter	Data Type	Required	Description
customer Address State	String (40)	С	Customer correspondence address state, county or province It should be noted for 3DS V2.x that the spelling and content should be as shown in the ISO-3166-2 standard, as the value will be converted to the ISO Code for the Authentication process. If the EVO Gateway cannot identify a code, null or no state code will be sent in the Authentication Request. This will not prevent the transaction from being processed. Condition: See above statement
customerAddressPhone	String (100)	N	Customer correspondence address phone
customerBillingAddressHouseName	String (50)	N	Customer billing address house name
customerBillingAddressHouseNumber	String (5)	N	Customer billing address house number
customerBillingAddressFlat	String (5)	N	Customer billing address flat
customerBillingAddressStreet	String (50)	N	Customer billing address street
customerBillingAddressCity	String (50)	N	Customer billing address city
customerBillingAddressDistrict	String (50)	N	Customer billing address district
customerBillingAddressPostalCode	String (30)	N	Customer billing address postal code
customerBillingAddressCountry	String (enum)	N	Customer billing address country The ISO alpha-2 code as defined in the ISO 3166 standard
customerBillingAddressState	String (40)	N	Customer billing address state It should be noted for 3DS V2.x that the spelling and content should be as shown in the ISO-3166-2 standard, as the value will be converted to the ISO Code for the Authentication process. If the EVO Gateway cannot identify a code, null or no state code will be sent in the Authentication Request. This will not prevent the transaction from being processed.
customerBillingAddressPhone	String (100)	N	Customer billing address phone
customerShippingAddressHouseName	String (50)	N	Customer shipping address house name
customerShippingAddressHouseNumber	String (5)	N	Customer shipping address house number
customerShippingAddressFlat	String (5)	N	Customer shipping address flat
customerShippingAddressStreet	String (50)	N	Customer shipping address street
customerShippingAddressCity	String (50)	N	Customer shipping address city
customerShippingAddressDistrict	String (50)	N	Customer shipping address district
customerShippingAddressPostalCode	String (30)	N	Customer shipping address postal code
customerShippingAddressCountry	String (enum)	N	Customer shipping address country The ISO alpha-2 code as defined in the ISO 3166 standard
customerShippingAddressState	String (40)	N	Customer shipping address state, county or province It should be noted for 3DS V2.x that the spelling and content should be as shown in the ISO-3166-2 standard, as the value will be converted to the ISO Code for the Authentication process. If the EVO Gateway cannot identify a code, null or no state code will be sent in the Authentication Request. This will not prevent the transaction from being processed.
customerShippingAddressPhone	String (100)	N	Customer shipping address phone



Parameter	Data Type	Required	Description
Additional Authentication Data			
		Not requ	ired of externalAuthentication object is provided
for customers.			istomer Authentication (SCA) and 3DS V2.x processes to combat fraud and increase electronic payment security
Frictionless Flows in the Authentication p	•		
merchantAuthInfo	JSON Object	N	Merchant Authentication Information: Information about how the merchant authenticated the cardholder before or during the transaction. This parameter is optional, but it is recommended that it is provided if the information is available. Also, although the individual data elements are optional, as much available information should be provided as is available. Format: "merchantAuthInfo": { "merchantAuthData": " ", "merchantAuthMethod": " ", "merchantAuthTimestamp": " ", "merchantAuthTimestamp": " ", See Appendix F - merchantAuthInfo Data Elements Definitions for the data elements' definitions.
merchantPriorAuthInfo	JSON Object	N	Merchant Prior Transaction Authentication Information: Information about how the merchant authenticated the cardholder as part of a previous 3DS transaction. This parameter is optional, but it is recommended that it is provided if the information is available. Also, although the individual data elements are optional, as much available information should be provided as is available. Format: "merchantPriorAuthInfo": { "merchantPriorAuthData": " ", "merchantPriorAuthMethod": " ", "merchantPriorAuthTimestamp": " ", "merchantPriorRef": " ", See Appendix G - merchantPriorAuthInfo Data Elements Definitions for the data elements' definitions.



Darameter	Data Tuna		Description
Parameter	Data Type	Required	Description
			Merchant Risk Indicator: Merchant's assessment of the level of fraud risk for the specific authentication for
			both the cardholder and the authentication being conducted.
			This parameter is optional, but it is recommended that it is provided if this information is available.
			Also, although the individual data elements are optional, as much available information should be provided
			as is available.
			Format:
			"merchantRiskIndicator" : {
			"deliveryTimeframe":" ",
merchantRiskIndicator	JSON Object	N	"giftCardAmount":" ",
			"giftCardCount":" ",
			"giftCardCurr":" ",
			"preOrderDate":" ",
			"preOrderPurchaseInd":" ",
			"reorderItemsInd":" ",
			"shipIndicator":" "
			}
			See Appendix H - merchantRiskIndicator Data Elements Definitions for the data elements' definitions.



Parameter	Data Type	Required	Description
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Card On File Transactions Required Parameters

Transactions that are initiated by stored payment card credentials, stored either by the merchant or in the EVO Gateway, must be identified in the payment process through to the Card Issuers and Card Schemes. By their nature, these transactions, where the cardholder is not present at the point of initiation, will not have card or cardholder authentication data accompanying the transaction. To enable the Schemes and Issuers to assess risk and determine potential fraud accurately, new indicators and processes have been introduced to provide greater clarity into transactions using stored credentials.

The following 'cardOnFile' prefixed parameters are provided to comply with these requirements. These parameters must be provided for:

- Recurring Payments Plans transactions these are Plans managed by the merchant, either initiated using this API or the EVO Gateway's Hosted Payment Page
- Stored Credential Payments these are where the cardholder has consented to the merchant storing the card details (except the CVV/CSC), which will be presented back to the cardholder in future payments, so that the customer does not have to re-enter the payment card information

The field rules are:

- For the initial transaction:
 - cardOnFileType is set to 'First' only
 - o cardOnFileInitiator and cardOnFileInitialTransactionId parameters are omitted

Note: if the cardOnFileInitiator and cardOnFileInitialTransactionId parameters are included they will be ignored by the EVO Gateway

- Subsequent (recurring) payment requests must have the following values:
 - cardOnFileType is set to 'Repeat'
 - cardOnFileInitiator is set to
 - 'Merchant' for Recurring Payments
 - 'Cardholder' for OneClick

cardOnFileInitialTransactionId is set to the merchantTxId value returned in the Auth/Purchase/Verify Response – Processed (section 2.3) of the initial transaction

		<u> </u>	100000000000000000000000000000000000000
cardOnFileType	String (10)	С	Indicates if the transaction is the first in a series of COF transactions or a transaction from already stored credentials Conditions: Mandatory if the payment originates from stored payment card credentials, i.e. the cardholder or merchant user did not input the card data during the transaction process, e.g. OneClick or pre-populated payment pages from stored card data Permitted Values "First": If the transaction is starting a series of COF transactions "Repeat": If the transaction is a subsequent transaction
cardOnFileInitiator	String (10)	С	 Indicates if the COF transaction is either a: Cardholder Initiated Transaction (CIT) where the cardholder actively selects the card to use, and completes the transaction using previously stored details. Merchant Initiated Transaction (MIT) where a merchant submits a transaction using previously stored detailed without the cardholder's participation. For example, a recurring payment. Condition: Mandatory if cardOnFileType = "Repeat" Permitted Values "Cardholder": If a Cardholder Initiated Transaction "Merchant": If a Merchant Initiated Transaction



Parameter	Data Type	Required	Description
cardOnFileInitialTransactionId	String (50)	C	The merchant's transaction identifier¹ for the transaction that started the COF series of payments, i.e. the transaction where cardOnFileType = "First"; the merchantTxld value sent in the original Session Token Request or returned in the Auth/Purchase/Verify Response – Processed Note: this must be the transaction identifier for the specific set of transactions. For example, if the customer has multiple recurring payments plans with the merchant, this value for the payment being request must be the initial payment for the plan Conditions: • Mandatory if cardOnFileType = "Repeat" • For OneClick transactions this must be the data.oneClickPaymentMethods.originalTransactionId returned in the Get OneClick Payment Methods Response – Processed Note: If the initial transaction identifier is not known, the value "999999999999" should be provided. This situation can arise from a migration to a new payment service provider or during the transition to the new Card On File requirements when continuing legacy recurring payments. This should not be used for any other purposes, otherwise an increase in payment decline rate could be experienced
cardOnFileReason	String (1)	С	Indicates the type of series of COF transactions Conditions: Mandatory If cardOnFileType = "First" or "Repeat" And for 3DS V2.x Values: "I": Installments "R": Recurring "H": Reauthorization "E": Resubmission "D": Delayed "M": Incremental "N": No Show "C": Other
cardOnFileMaxPayments	Integer (3)	С	Indicates the maximum number of authorisations permitted for instalment payments, where cardOnFileReason = 'I'. Must be greater than 1. Conditions: Mandatory If the Merchant and Cardholder have agreed to instalment payments, i.e. cardOnFileReason = 'I' And for 3DS V2.x

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¹ Note: this is used to match the constraint in the REFUND API Operation where the *originalMerchantTxId* is mandatory, whereas the *originalTxId* (the EVO Gateway transaction identifier) is non-mandatory. Therefore, it is more likely that the merchant would already have a method for their ID. See Section 1.1 of the *API Specification - 3 - REFUND*



Parameter	Data Type	Required	Description

Merchant Managed Recurring Payment Plan Required Parameters

The following fields prefixed with "mmrp" are provided for the merchant to be able to send transaction data from Merchant Managed Recurring Payment Plans. These data are required by the Acquirer, Issuers and Card Schemes to recognise that a Recurring Payment Plan is being created and to accept subsequent transactions in a plan as being related to the initiating transaction.

A Recurring Payment transaction is a transaction for which a cardholder provides written permission to a merchant to periodically charge his/her account number for recurring goods or services. These may include payment of charges such as insurance premiums, subscriptions, membership fees, tuition or utility charges. The recurring transaction indicator must be present in the authorization/initial purchase/sale. Address verification must be obtained with the initial transaction and is not required in the subsequent recurring transactions that contain the recurring indicator. Address verification is required to be obtained yearly.

Notes:

- 1. The data values must be as stated in the Description
- 2. The data must be accompanied with the "cardOnFile" prefixed data above

The data are not required if the merchant is setting up an EVO Gateway Managed Recurring Payment Plan in the EVO Gateway (see the "rp" prefixed fields below)

EVO MX Notes:

EVO MX (Banamex) merchants have two types of Recurring Payment Plans available to them, which must be properly encoded:

- 1. Where *mmrpBillPayment* is set to 'Recurring': this is an agreement between the merchant and the customer, for the merchant to supply goods / services upon successful payment.
 - This type of plan only requires the *mmrpBillPayment* (set to 'Recurring'), *mmrpCustomerPresent* and *mmrpContractNumber* to be provided.

 These types of plans may include payment of charges such as insurance premiums, subscriptions, membership fees, tuition or utility charges
- 2. Where *mmrpBillPayment* is set to 'RecurringInstallment': similar to above, but the merchant also has an agreement with their bank, who will pay the full amount of the instalment plan to the merchant upon a successful initial payment by the customer. The customer continues to pay their instalments to the merchant, and the merchant pays instalments to their bank.
 - This type of plan requires the *mmrpBillPayment* (set to 'RecurringInstallment'), *mmrpCustomerPresent*, *mmrpContractNumber*, *mmrpInstallmentPlanType* and *mmrpCurrentTotalNumberOfInstallments* to be provided.

These types of plans are fixed length (indicated by the mmrpCurrentTotalNumberOfInstallments parameter) and may include loan repayments or annual insurance premiums

/! !			For the initial and subsequent transactions must be set to:
mmrpBillPayment	String (10)	N	"Recurring", or
			"RecurringInstallment" available to Banamex (EVO MX) merchants only
mmrnCustomorProcont	String (12)	For the initial and subsequent transactions must be set to "BillPayment"	
mmrpCustomerPresent	String (12)	C	Condition: required if mmrpBillPayment = "Recurring" or "RecurringInstallment"
			For subsequent transactions only, must be set to the merchantTxld of the first payment that initiated the
mmrpOriginalMerchantTransactionId	String (50)	С	Recurring Payment series
Illiniporiginalivierchant transactioniu			Condition: required if mmrpBillPayment = "Recurring"
			Not required for Banamex (EVO MX) merchants
mmrpContractNumber			Required for Banamex (EVO MX) merchants only
	String (EO)		For the initial and subsequent transactions, the Contract Number is managed by the merchant and must be
	String (50)		unique for each contractual agreement between the merchant and cardholder.
		1	Condition: Required if mmrpBillPayment = "Recurring" or "RecurringInstallment"



Parameter	Data Type	Required	Description
mmrpRecurringExpiry	Date	С	Date after which no further recurring payments authorisations shall be performed, i.e. the expected date of the final payment of the Recurring Payments Plan. Format: YYYYMMDD Conditions: Mandatory: If mmrpBillPayment = "Recurring" And for 3DS V2.x Not required for Banamex (EVO MX) merchants
mmrpRecurringFrequency	Integer (4)	С	The minimum number of days between Plan payments. Examples: Daily Plans: 1 Weekly Plans: 7 Monthly Plans 28 Condition: Mandatory: If mmrpBillPayment = "Recurring" And for 3DS V2.x Not required for Banamex (EVO MX) merchants
mmrpCurrentTotalNumberOfInstallments	Number (2)	С	For Banamex (EVO MX) merchants only The total number of instalments in the series (1-99) Condition: required if mmrpBillPayment = "RecurringInstallment"
mmrpCurrentInstallmentNumber	Number (2)	С	For Banamex (EVO MX) merchants only The number of the instalment represented by this transaction (1-99). Cannot be greater than mmrpCurrentTotalNumberOfInstallments Condition: required if mmrpBillPayment = "RecurringInstallment"

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Parameter Data Type Required Description

EVO Gateway Recurring Payment Plan Setup Required Parameters

The following fields prefixed with "rp" are provided for the merchant to be able to set up an EVO Gateway Managed Recurring Payment Plan with their customer in the EVO Gateway. The data must only be sent with the Request for the payment/verification that will initiate the Recurring Payment Plan series of payments. All subsequent payment requests will be generated by the EVO Gateway. The transaction results will be returned to the merchant in a Transaction Result call when complete. The EVO Gateway Managed Recurring Payment Plans created by this process can be seen and managed in the EVO Gateway Back-Office/Virtual Terminal Recurring Payments menu option.

Notes:

- 1. If the parameters are completed, the 'cardOnFileType' parameter must be set to "First". If not, an error will be returned stating that the parameter is missing.
- 2. If the merchant has not been configured for Recurring Payments in the EVO Gateway and data is present where *rpPlanType* > 0, an error will be returned stating that the merchant is not authorised for Recurring Payments and the payment will not be processed.
- 3. Errors will be returned in the Session Token Response Not Processed (section 1.3)

Therefore, for merchants that have not been configured for Recurring Payment Plans all these fields must be omitted or empty (rpPlanType can be set to '0').

T T		Define the true of Description Provided to the part of
		Defines the type of Recurring Payment to be created
		Condition : Only required in the initial transaction to create the recurring payment plan in the EVO Gateway
		Permitted Values:
Number (1)		O or missing = None (all Recurring Payments fields must be empty/will be ignored)
vumber (1)	C	1 = Subscription
		2 = Direct Debit
		3 = Repayment
		4 = Pay Per Use
		The name of the Recurring Payments Plan given by the merchant
	_	Condition: Required if rpPlanType > 0
string (200)	С	Permitted Values: free text for the merchant's easy reference in the EVO Gateway Back-Office/Virtual
		Terminal
		Indicates how often payments are taken.
		Condition: Required if rpPlanType > 0
		Permitted Values: The value is dependent on the rpPlanType value:
		If rpPlanType = 4 must be
		0 Ad hoc or not known
		Else one of the following
)	6	20 Daily
number (2)	C	23 Every 3 Days
		1 Weekly
		22 Every 2 Weeks
		2 Monthly
		3 Every 3 Months / Quarterly
		4 Every 6 Months
		5 Yearly
Si	umber (1) tring (200)	umber (1) C tring (200) C



Parameter	Data Type	Required	Description
rpNoOfPayments	Number (3)	С	The total number of payments to be taken Condition: Required if rpPlanType > 0 Permitted Values: The value is dependent on the rpPlanType value: 1
rpDueDay	Number (2)	С	Defines the date on which the payment is due. This value is used to calculate the next payment due date after a payment is taken. Only for the second payment after the initial payment, this can be overridden by rpNextPaymentDate, but the third and subsequent payments will be calculated from the rpFrequency and rpDueDay values provided. Note: these can be changed in the Back-Office/Virtual terminal Recurring Payments Plan menu option. Condition: Required if rpPlanType > 0 Permitted Values: The value is dependent on the rpFrequency value: If rpFrequency = 0, 20 or 23 0 If rpFrequency = 1 or 22 >= 1 and <= 7 the day of the week (where Monday = 1) If rpFrequency = 2, 3, 4 or 5 >= 1 and <= 28 the day of the month, or the last day of the month
rpNextPaymentDate	Date	С	Used to force a specific date when the second payment of the Recurring Payment Plan must be taken. Condition: Can be provided if rpPlanType > 0 If not provided the next rpNextPaymentDate will be calculated from the rpFrequency and rpDueDay Permitted Values: a date in the format DD/MM/YYYY
rpAmount	BigDecimal (15.2 or 15.3)	С	The amount to be recovered from the payment card for each subsequent Recurring Payment. This can be different from the initial payment provided in the amount field above. Condition: Required if rpPlanType > 0 Permitted Values: The value is dependent on the rpPlanType value: 1 > 0.00 2 can be 0.00 or greater 3 > 0.00 4 can be 0.00 or greater If rpAmount = 0.00, the merchant will provide the values to the EVO Gateway in text files supplied to the SFTP folder



Parameter	Data Type	Required	Description
rpFinalAmount	BigDecimal (15.2 or 15.3)	С	The final amount to be recovered from the payment card when a fixed term AUTH/PURCHASE/VERIFY (Direct API Integration) Plan ends. Condition: Required if rpPlanType > 0 Permitted Values: The value is dependent on the rpPlanType value: 1 must be 0.00 2 must be 0.00 3 must be > 0.00 can be the same as rpAmount 4 must be 0.00
rpContractNumber	String (50)	С	The unique Contract Number between the merchant and cardholder for the Recurring Payment Plan Condition: Required if <i>rpPlanType</i> is provided and merchant's sales channel is Banamex (EVO MX) Only used by merchants from the EVO MX Sales Channel
rpReceiptEmail	String (80)	С	The email address to which receipts should be sent for all the subsequent recurring payments. A receipt will be sent for all results of those transactions, i.e. whether successful, declined or an error. Condition: if rpReceiptRequired = 1 this field must be completed
rpCardUpdaterInterval	Integer	С	Denotes the time interval in days between successive processing of payment cards through the Card Updater Service. The maximum interval allowed by the Card Schemes is 6 months, 180 days. Condition: Can be provided if rpPlanType > 0 This is a value that is applied to the Recurring Payments Plan and will override the default value configured for the merchant in the EVO Gateway. The field allows the merchant to change the time interval for selected Recurring Payment Plans. Permitted Values: Must be an integer <=180

Merchant Managed eGlobal Instalments Parameters

The following parameters prefixed with "mmip" are provided for EVO MX/Banamex merchant's to be able to send transaction data that includes the cardholder's chosen Issuing Bank Instalment Plan. The parameters are provided for Direct API Integrated merchants who manage the Instalments Plans data in their own back-offices or virtual terminals.

All parameters must be completed.

Only used by merchants from the EVO MX Sales Channel

mmipPlanID	String (50)	N	The merchant's identifier in the merchant's system for the Instalment Plan chosen by the cardholder Condition : none
mmipIssuerName	String (100)	С	The name of the Instalments Plan Issuer in the merchant's system Condition: required if mmipPlanId exists
mmipPlanName	String (25)	С	The name given to the Instalment Plan in the merchant's system Condition: required if mmipPlanId exists
mmipStartDate	Date	С	The date, in the format DD/MM/YYYY, from which the Instalments Plan is available to the merchant's customers Condition: required if mmipPlanId exists
mmipEndDate	Date	С	The date, in the format DD/MM/YYYY > mmipStartDate, up and until which the Instalments Plan is available to the merchant's customers Condition: required if mmipPlanId exists



Parameter	Data Type	Required	Description		
			The currency of the instalments amount offered by the Issuer, as a 3-alpha code as defined in the ISO-4217		
mmipCurrency	String (3)	С	standard		
			Condition: required if mmipPlanId exists		
mminMinimumAmount	Number (1E 2)	C	The minimum amount, > 0.00, that can be paid in the Instalments Plan		
mmipMinimumAmount	Number (15,2)	C	Condition: required if mmipPlanId exists		
mmipNoOfPayments	Number (3)	С	The number of months, > 1, that the Instalments Plan will be for		
miniphoorpayments			Condition: required if mmipPlanId exists		
EVO Gateway Managed eGlobal Instalments Parameter					
The following parameter is provided for EVO MX/Banamex merchant's to be able to select an Installment Plan from the data stored in the EVO Gateway. The data will have been input in					
the EVO Gateway Back-Office using the 'Instalments Plans' option.					
			The Plan ID of the chosen Instalments Plan		
selectedInstallmentsPlanId	String (7) N	N	If not included, the Request will be processed as a single purchase transaction		
			Only used by merchants from the EVO MX Sales Channel		



1.2 Session Token Response - Processed

1.2.1 Format

JSON

1.2.2 Definition

Parameter	Data Type	Description
result	String (40)	Will always be "success"
merchantId	Integer (18)	The merchantId value received in the Session Token Request (section 1.1)
		The Session Token that is a one-time use, hexadecimal string
takan	String (40)	The Token that must only be used for the Auth/Purchase/Verify Request (section 2.1)
token String (40)		Session tokens are valid for 3600 second (1 hour) after which they expire
	Any requests with expired session tokens will be rejected	
resultId	String (40)	Hexadecimal string that is to be used in any support request calls
processingTime	Integer (6)	The time in seconds for the process to complete
additionalDetails	Array	Not used – will always be "{}" or not included

1.3 Session Token Response - Not Processed

1.3.1 Format

JSON

1.3.2 Definition

Parameter	Data Type	Description
result	String (40)	Will always be "failure"
errors	String Array	List of issues
resultId	String (40)	Hexadecimal string that is to be used in any support request calls
processingTime	Integer (6)	The time in seconds for the process to complete
additionalDetails	Array	Not used – will always be "{}" or not included



2 AUTH/PURCHASE/VERIFY API Operation

2.1 Auth/Purchase/Verify Request

2.1.1 Format

POST Request to Action Request URL (see Section 3 of the EVO Gateway – 0 – Overview document)

2.1.2 Definition

Parameter	Data Type	Mandatory	Description
			The identifier for the merchant in the EVO Gateway provided
merchantId	Integer (18)	Y	at on-boarding. This must be the same as that sent in the
			Session Token Request (section 1.1)
	6: : (46)		Session Token received in the Session Token Response -
token	String (40)	Υ	Processed (section 1.2)
		N	A free text field for use by the merchant that is returned in
_	_ , ,,		the Transaction Result Call (see EVO Gateway - 6 -
freeText	String (200)		TRANSACTION RESULT CALL), can be used if not supplied in
			the Session Token Request (section 1.1)
			Customer identifier in the merchant system, or the value
			generated by the EVO Gateway in a previous original payment
			transaction using the payment card or method.
			The value is used to validate that the payment card token is
			for the correct customer
			This must be the value supplied in or by the TOKENIZE API
		С	Operation.
austam arld	Ctring (20)		If the <i>customerId</i> value is not the same held against the
customerId	String (20)		_ =
			payment card token in the EVO Gateway database an
			Auth/Purchase/Verify Response – Not Processed (section 2.4)
			is returned.
			Conditions:
			Mandatory, if not received in the Session Token
			Request (section 1.1), for payment cards method
			Optional for alternative payment methods
	String (39)	С	Customer IP address from where purchase is made.
customerIPAddress			Only IPv4 supported
eastornern Address			Condition : Mandatory, if not received in the Session Token
			Request (section 1.1), otherwise ignored
			Antifraud token
			If an antifraud tool has been executed before an analysis
			identifier is required by payment acquirer.
fraudToken	String (50)	N	Mandatory for transactions conducted in LATAM countries,
			and only when the merchant wishes the transaction to be
			conducted as direct integration (server-to-server), as opposed
			to browser-redirection based integration.
	Integer (18)	С	Payment solution identifier in the EVO Gateway.
paymentSolutionId			Condition : Mandatory, if not received in the Session Token
			Request (section 1.1), otherwise ignored
	rCard Boolean	N	If TRUE flags that the cardholder wishes to save the card
			stored in the specinCreditCardToken parameter for future
			OneClick transactions
			Must be TRUE if the payment card is to be saved
setOneClickValueSettingForCard			Note: the card will only be available for use as a OneClick
	300.0011		Payment Method, if the current transaction is successful.
			Otherwise, the payment card will not be available in the
			future. The customer will have to make another transaction
			that is successful.
			נוומנ וז מעננפסטועו.



Parameter	Data Type	Mandatory	Description
		С	Credit card CVV, if payment solution is credit card through the
specinCreditCardCVV	String (4)		ECOM channel.
specificienticarucvv			Condition: Mandatory, if not received in the Session Token
			Request (section 1.1), otherwise ignored
	String (100)	С	The payment card token received in the TOKENIZE API
specinCreditCardToken			Operation, see <i>EVO Gateway – 1 – TOKENIZE</i>
specificienticaru rokeri			Condition: Mandatory, if not received in the Session Token
			Request (section 1.1), otherwise ignored
			The Plan ID of the chosen Instalments Plan
			If not included in the context of Instalments Plans, the API
ipPlanId	String (7)	N	Operation will be treated as a normal single purchase
			transaction
			Only used by merchants from the EVO MX Sales Channel



2.2 3DS Redirection Response

The 3DS Redirection Response is used by the merchant's system to open the 3DS challenge window in the customer's browser, for the customer to enter their security information to confirm their identity.

The 3DS Redirection Response is sent if:

- forceSecurePayment parameter = True, in the Session Token Request (section 1.1), or
- the 3D Secure routing rules held in the EVO Gateway for the merchant require that card payment transactions are subject to 3DS Version 1.0

2.2.1 Format

JSON

2.2.2 Definition

Parameter/Label	Data Type	Description
result	String (enum)	Will always be "redirection"
merchantId	Integer (18)	The merchantId value received in the Session Token Request (section 1.1)
merchantTxId	String (50)	The merchant's reference for the transaction provided in the Session Token Request
		(section 1.1) or that generated by the EVO Gateway
txId	Integer (18)	The unique identifier for the transaction in the EVO Gateway
redirectionUrl	String (URL)	The URL to which the customer's browser must be redirected after the 3D Secure
		processing is completed



2.3 Auth/Purchase/Verify Response - Processed

2.3.1 Format

JSON

2.3.2 Definition

Parameter	Data Type	Description
result	String (40)	Will always be "success"
merchantId	Integer (18)	The merchantId value received in the Session Token Request (section 1.1)
merchantTxId	String (50)	The merchant's reference for the transaction provided in the Session Token
merchantrald	3ti iiig (30)	Request (section 1.1) or that generated by the EVO Gateway
txld	Integer (18)	The unique identifier for the transaction in the EVO Gateway
acquirerTxId	String (100)	The transaction identifier in acquirer system, if returned
amount	BigDecimal	The transaction amount, including tax, shipping, surcharge and discount
amount	(15.2 or 15.3)	amounts, provided in the Session Token Request (section 1.1)
currency	String (enum)	The transaction ISO alpha-3 currency code as defined in the <u>ISO 4217 standard</u> ,
,		provided in the Session Token Request (section 1.1)
customerId	String (20)	The customer identifier provided in the Session Token Request (section 1.1) or
		that generated by the EVO Gateway
action	String (enum)	Action executed as provided in the Session Token Request (section 1.1)
		("AUTH", "PURCHASE" or "VERIFY") The customer account value/number used in the transaction
pan	String (100)	If a payment card was used this will be the specinCreditCardToken value
pan	String (100)	provided in the Session Token Request (section 1.1)
		The <i>brandld</i> value received in Session Token Response, or the default value used
brandId	Integer (18)	by the EVO Gateway, if not provided
		The paymentSolutionId value received in the Session Token Request (section
paymentSolutionId	Integer (18)	1.1)
		A free text field for use by the merchant that is returned in the Transaction
freeText	String (200)	Result Call (see <i>EVO Gateway</i> - 6 - TRANSACTION RESULT CALL), used if not
		supplied in the Session Token Request (section 1.1)
language	String (enum)	{not used for Direct API merchant}
acquirerAmount	BigDecimal	Amount processed by payment acquirer.
acquirerAmount	(15.2 or 15.3)	May be different than the <i>amount</i> in the Session Token Request (section 1.1)
		The ISO alpha-3 currency code, as defined in the <u>ISO 4217 standard</u> , of the
acquirerCurrency	String (enum)	currency processed by the payment acquirer, which maybe different to the
		currency in the Session Token Request (section 1.1)
	JSON block	For payment cards only: The Transaction Authorisation Code received from the
		acquirer, format:
		{ "authCode":"",
		expiryDate: , "cardType":"",
paymentSolutionDetails		"maskedPan":"",
		"nameOnCard":"",
		"avsPostCode":"",
		"addrResultCode":"" }
		Note: the maskedPan value format is "999999******9999"
		The identifier for the EVO Gateway Managed Recurring Payment Plan that was
	Integer (18)	requested in the Session Token Request (section 6.4) through the 'rp' prefixed
rpld		parameters
TPIG	111111111111111111111111111111111111111	If no Plan was requested this field will be empty
		If there was an error setting up the Plan the errors will be detailed in the errors
		field



Parameter	Data Type	Description		
		The status of the transaction	n in the EVO Gateway:	
		Status	Condition	
status	String (enum)	WAITING_DEC_AUTH	If the card issuer has requested a Decoupled Authentication in the 3DS V2.x process. The payment process is suspended waiting for the cardholder/customer to complete the authentication. Once complete If the authentication was successful, Payment Authorisation will be processed and the result returned in a Transaction Result Call or email alert If authentication failed, the result returned in a Transaction Result Call or email alert	
		NOT_SET_FOR_CAPTURE	If "AUTH" successful	
		SET_FOR_CAPTURE	If "PURCHASE" successful	
		VERIFIED	If "VERIFY" successful	
		DECLINED	If "AUTH" or "PURCHASE" was declined/refused	
		ERROR	If an error was returned by the payment process	
errors	String (400)	Any errors that occurred du	ring the successful processing of a transaction	
customParameter1Or	String (50)	The original 20x (50 characte	er) free text fields provided by the merchant in the	
customParameter20Or		Session Token Request (sect	ion 1.1)	
customParameter1 customParameter20	String (50)	20 x (50 character) free text fields provided by the merchant in the Session Token Request (section 1.1), with non-Basic Latin characters replaced by a space character. These values will have been sent for payment processing.		

2.4 Auth/Purchase/Verify Response - Not Processed

2.4.1 Format

JSON

2.4.1 Definition

Parameter	Data Type	Description
result	String (40)	Will always be "failure"
errors	String Array	List of issues
resultId	String (40)	Hexadecimal string that is to be used in any support request calls
processingTime	Integer (6)	The time in seconds for the process to complete
additionalDetails	Array	Not used – will always be "{}" or not included
errors	String Array	List of errors
customParameter1Or	String (50)	The original 20x (50 character) free text fields provided by the merchant in the
customParameter20Or		Session Token Request (section 1.1)
customParameter1	String (50)	20 x (50 character) free text fields provided by the merchant in the Session
customParameter20		Token Request (section 1.1), with non-Basic Latin characters replaced by a space
		character. These values will have been sent for payment processing.



Appendix A UAT Trigger Values

When integrating with the EVO Gateway in the User Acceptance Testing (UAT) environment, certain *amount* values in the Session Token Request (section 1.1) can be used to trigger response messages. This facility is provided to merchants so that testing can be confirmed against these expected errors.

Note:

- 1. In the 'Amount' column the '*.' denotes that any whole number value can be used. It is the decimal value that triggers the 'Response Message'
- 2. Any decimal value not listed below will return a Status of 'SUCCESS', where the transaction has been approved or completed successfully

Amount	Status	Response Message
0.00	SUCCESS	{none}
0.00	SUCCESS	{none}
0.01	SUCCESS	{none}
0.02		Refer to card issuer
	ERROR	
0.04	ERROR	Refer to card issuer, special condition
0.05	ERROR	Invalid merchant
0.06	SUCCESS	{none}
0.07	ERROR	Pick-up card
0.08	ERROR	Do not honour
0.09	ERROR	Error
0.10	ERROR	Pick-up card, special condition
0.11	ERROR	Invalid transaction
0.12	ERROR	Invalid amount
0.13	ERROR	Invalid card number
0.14	ERROR	No such issuer
0.15	ERROR	Re-enter transaction
0.16	ERROR	Not sufficient funds
0.17	ERROR	Unable to locate record
0.18	ERROR	Format error
0.19	ERROR	Bank not supported
0.20	ERROR	Expired card, pick-up
0.21	ERROR	Suspected fraud, pick-up
0.22	ERROR	Contact acquirer, pick-up
0.23	ERROR	Restricted card, pick-up
0.24	ERROR	Call acquirer security, pick-up
0.25	ERROR	PIN tries exceeded, pick-up
0.26	ERROR	No savings account
0.27	ERROR	No card record
0.28	ERROR	Lost card, pick-up
0.29	ERROR	Stolen card, pick-up
0.30	ERROR	Contact acquirer
0.31	ERROR	Exceeds withdrawal limit
0.32	ERROR	Original amount incorrect
0.33	ERROR	Expired card
0.34	SUCCESS	{none}
0.35	ERROR	Incorrect PIN
0.36	ERROR	Transaction not permitted to cardholder
0.37	ERROR	Transaction not permitted to cardinate
0.38	ERROR	Suspected fraud
0.39	ERROR	Restricted card
0.40	ERROR	Exceeds withdrawal frequency
0.41	ERROR	Call acquirer security
0.41	ERROR	PIN tries exceeded
	ERROR	
0.43		Hard capture
0.44	ERROR	Cut-off in progress



	7.6111/	Onenios venin (bireet in integration)
Amount	Status	Response Message
0.45	ERROR	Issuer or switch inoperative
0.46	ERROR	Duplicate transaction
0.47	ERROR	System malfunction
0.48	ERROR	Wrong PIN, allowable number of PIN tries exceeded
0.49	ERROR	Time out
0.50	ERROR	Cryptographic failure
0.51	ERROR	Routing error
0.52	ERROR	Exceeds cash limit
0.53	ERROR	TVR check failure
0.54	ERROR	TVR configuration error
0.55	ERROR	Unacceptable PIN
0.56	ERROR	Cashback service not available
0.57	ERROR	Cash request exceeds Issuer limit
0.58	SUCCESS	{none}
0.59	SUCCESS	{none}
0.60	SUCCESS	{none}
0.61	SUCCESS	{none}
0.62	SUCCESS	{none}
0.63	SUCCESS	{none}
0.64	SUCCESS	{none}
0.65	+	{none}
	SUCCESS	
0.66	SUCCESS	{none}
0.67	SUCCESS	{none}
0.68	SUCCESS	{none}
0.69	SUCCESS	{none}
0.70	SUCCESS	{none}
0.71	SUCCESS	{none}
0.72	SUCCESS	{none}
0.73	SUCCESS	{none}
0.74	SUCCESS	{none}
0.75	SUCCESS	{none}
0.76	SUCCESS	{none}
0.77	SUCCESS	{none}
0.78	SUCCESS	{none}
0.79	SUCCESS	{none}
0.80	SUCCESS	{none}
0.81	SUCCESS	{none}
0.82	SUCCESS	{none}
0.83	SUCCESS	{none}
0.84	SUCCESS	{none}
0.85	SUCCESS	{none}
0.86	SUCCESS	{none}
0.87	SUCCESS	{none}
0.88	SUCCESS	{none}
0.89	SUCCESS	{none}
0.90	SUCCESS	{none}
0.91	SUCCESS	{none}
0.92	SUCCESS	{none}
0.93	ERROR	Timeout response: The behaviour is dependent on the
0.33	LUUUU	transaction path and environment condition, but this
		transaction path and environment condition, but this trigger is used to simulate stalled connections on the part of
		==
0.04	EDDOD	the service provider, causing upstream timeout conditions.
0.94	ERROR	Timeout response: The behaviour is dependent on the
		transaction path and environment condition, but this
		trigger is used to simulate stalled connections on the part of
		the service provider, causing upstream timeout conditions.



Amount	Status	Response Message
0.95	ERROR	Dropped Connection response: The behaviour is dependent on the transaction path and environment condition, but this trigger is used to simulate dropped connections on behalf of the service provider, causing a connection error condition.
0.96	SUCCESS	{none}
0.97	SUCCESS	{none}
0.98	SUCCESS	{none}
0.99	SUCCESS	{none}



Appendix B Country States

The following table shows the codes for the US, Canadian and Mexican States used in the *customerDocumentState* parameter of the Session Token Request (section 1.1).

B.1 United States

State	Abbr	State	Abbr	Territories	Abbr
Alabama	AL	Montana	MT	American Samoa	AS
Alaska	AK	Nebraska	NE	Guam	GU
Arizona	AZ	Nevada	NV	Norther Mariana Islands	MP
Arkansas	AR	New Hampshire	NH	Puerto Rico	PR
California	CA	New Jersey	NJ	U.S. Virgin Islands	VI
Colorado	СО	New Mexico	NM		
Connecticut	CT	New York	NY		
Delaware	DE	North Carolina	NC		
District of Columbia	DC	North Dakota	ND		
Florida	FL	Ohio	ОН		
Georgia	GA	Oklahoma	OK		
Hawaii	HI	Oregon	OR		
Idaho	ID	Pennsylvania	PA		
Illinois	IL	Rhode Island	RI		
Indiana	IN	South Carolina	SC		
Iowa	IA	South Dakota	SD		
Kansas	KS	Tennessee	TN		
Kentucky	KY	Texas	TX		
Louisiana	LA	Utah	UT		
Maine	ME	Vermont	VT		
Maryland	MD	Virginia	VA		
Massachusetts	MA	Washington	WA		
Michigan	MI	West Virginia	WV		
Minnesota	MN	Wisconsin	WI		
Mississippi	MS	Wyoming	WY		
Missouri	МО				



State	Abbr
Alberta	AB
British Columbia	ВС
Manitoba	MB
New Brunswick	NB
Newfoundland and Labrador	NL
Northwest Territories	NT
Nova Scotia	NS
Nunavut	NU
Ontario	ON
Prince Edward Island	PE
Quebec	QC
Saskatchewan	SK
Yukon	YT



State	Abbr
Aguascalientes	AG
Baja California	BJ
Baja California Sur	BS
Campeche	СР
Chiapas	CH
Chihuahua	CI
Coahuila	CU
Colima	CL
Distrito Federal	DF
Durango	DG
Guanajuato	GJ
Guerrero	GR
Hidalgo	HG
Jalisco	JA
Mexico	EM
Michoacán	МН
Morelos	MR
Nayarit	NA
Nuevo Leon	NL
Oaxaca	OA
Puebla	PU
Queretaro	QA
Quintana Roo	QR
San Luis Potosi	SL
Sinaloa	SI
Sonora	SO
Tabasco	TA
Tamaulipas	TM
Tlaxcala	TL
Veracruz	VZ
Yucatan	YC
Zacatecas	ZT



Appendix C customerBrowser Data Elements Definitions

All parameters are required if the *customerBrowser* object is included

Data Element	Data Type	Req	Description
			Exact content of the HTTP accept headers as sent to the merchant from the Cardholder's browser.
browserAcceptHeader	String (2048)	Υ	Value accepted: If the total length of the accept header sent by the browser exceeds 2048 characters, the excess content will
			be truncated.
			Is the Browser Java Enabled: Flag that represents the ability of the cardholder browser to execute Java. Value is returned
			from the navigator.javaEnabled property.
browserJavaEnabled	Boolean	Υ	Values accepted:
			false – Not supported
			true – Supported
			Is the Browser JavaScript Enabled: Flag that represents the ability of the cardholder browser to execute JavaScript.
hrouserleve cerint Enabled	Boolean	Y	Values accepted:
browserJavascriptEnabled	Boolean	l r	false – Not supported
			true – Supported
browsorl anguage	Ctring (0)	Υ	Browser Language: Value representing the browser language as defined in IETF BCP47.
browserLanguage	String (8)	l ř	Returned from navigator.language property.
			Browser Colour Depth: Value representing the bit depth of the colour palette for displaying images, in bits per pixel. Obtained
			from Cardholder browser using the screen.colorDepth property.
			Values accepted:
			1 = 1 bit
			4 = 4 bits
browserColorDepth	String (enum)	Υ	8 = 8 bits
			15 = 15 bits
			16 = 16 bits
			24 = 24 bits
			32 = 32 bits
			48 = 48 bits
browserScreenHeight	Integer (6)	Υ	Browser Screen Height: Total height of the Cardholder's screen in pixels. Value is returned from the screen.height property.
browserScreenWidth	Integer (6)	Υ	Browser Screen Width: Total width of the cardholder's screen in pixels. Value is returned from the screen.width property.
			Browser Time Zone: Time-zone offset in minutes between UTC and the Cardholder browser local time. Value is returned from
			the getTimezoneOffset() method.
browserTZ	Integer (6)	Υ	Note that the offset is positive if the local time zone is behind UTC and negative if it is ahead.
DIOWSELIZ	integer (0)	'	Value accepted: Example time zone offset values in minutes:
			If UTC -5 hours: 300 or +300
			If UTC +5 hours: 300



Data Element	Data Type	Req	Description
challengeWindowSize	String (enum)	Υ	Challenge Window Size: Dimensions of the challenge window that has been displayed to the Cardholder. The Issuer will reply with content that is formatted to appropriately render in this window to provide the best possible user experience. Preconfigured sizes are width X height in pixels of the window displayed in the Cardholder browser window. This is used only if a Challenge is required by the Issuer. Values accepted: 01 - 250 x 400 02 - 390 x 400 03 - 500 x 600 04 - 600 x 400 05 - Full screen

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Appendix D sdkAppInfo Data Element Definitions

All parameters are required if the sdkAppInfo object is included

Data Element	Data Type	Req	Description
sdkAppld	String (36)	Υ	SDK App Id: Universally unique ID created upon all installations of the 3DS Requestor App on a Consumer Device. This will be newly generated and stored by the 3DS SDK for each installation. Value accepted: Canonical format as defined in IETF RFC 4122. This may utilise any of the specified versions as long as the output meets specified requirements.
sdkEncryptedData	String (64000)	Υ	JWE Object (represented as a string) that contains data encrypted by the SDK for the Directory Server to decrypt See Section 6.2.2.1 of EMVCo's "EMV 3-D Secure – Protocol and Core Functions Specification" for additional detail
sdkPublicKey	JWK Object (Max 256 Chars)	Υ	Public key component of the ephemeral key pair generated by the 3DS SDK and used to establish session keys between the 3DS SDK and ACS See Section 6.2.3.1 of EMVCo's "EMV 3-D Secure – Protocol and Core Functions Specification" for additional detail
sdkMaxTimeout	Integer (2)	Υ	Indicates maximum amount of time (in minutes) for all exchanges.
sdkReferenceNumber	String (32)	Υ	Identifies the vendor and version for the 3DS SDK that is integrated in a 3DS Requestor App, assigned by EMVCo when the 3DS SDK is approved.
sdkTransactionId	String (26)	Υ	Universally unique transaction identifier assigned by the 3DS SDK to identify a single transaction. Canonical format as defined in IETF RFC 4122. This may utilise any of the specified versions if the output meets specified requirements.
sdkInterface	String (enum)	Y	SDK Interface: Lists all of the SDK Interface types that the device supports for displaying specific challenge user interfaces within the SDK. Values accepted: 01 = Native 02 = HTML 03 = Both
sdkUiType	String (enum) Array	Υ	SDK UI Type: Lists all UI types that the device supports for displaying specific challenge user interfaces within the SDK. Values accepted for each sdkInterface value: Native UI = 01–04 HTML UI = 01–05 Note: Currently, all SDKs need to support all UI Types. In the future, however, this may change (for example, smart watches may support a UI Type not yet defined by this specification). Values accepted: 01 = Text 02 = Single Select 03 = Multi Select 04 = OOB 05 = HTML Other (valid only for HTML UI)



Appendix E customerAccountInfo Data Elements Definitions

All parameters are optional, but should be supplied if the data is available to facilitate a Frictionless Flow

Data Element	Data Type	Req	Description
			Cardholder Account Age Indicator: Length of time that the cardholder has had the account with the merchant. Values accepted: 01 = No account (guest check-out)
custAccAgeInd	String (enum)	N	02 = Created during this transaction
			03 = Less than 30 days
			04 = 30–60 days
			05 = More than 60 days
			Cardholder Account Change: Date that the cardholder's account with the merchant was last changed, including Billing or
custAccChange	String (8)	N	Shipping address, new payment account, or new user(s) added.
			Date format = YYYYMMDD
			Cardholder Account Change Indicator: Length of time since the cardholder's account information with the merchant was last
			changed, including Billing or Shipping address, new payment account, or new user(s) added.
			Values accepted:
custAccChangeInd	String (enum)	N	01 = Changed during this transaction
			02 = Less than 30 days
			03 = 30–60 days
			04 = More than 60 days
	6 (6)		Cardholder Account Password Change: Date that cardholder's account with the merchant had a password change or account
custAccPwChange	String (8)	N	reset
			Date format = YYYYMMDD
			Indicates the length of time since the cardholder's account with the Merchant had a password change or account reset.
			Values accepted: 01 = No change
custAccPwChangeInd	String (enum)	NI	01 = No Change 02 = Changed during this transaction
custAccewchangemu	String (enum)	N	02 = Changed during this transaction 03 = Less than 30 days
			03 – Less than 30 days 04 = 30–60 days
			05 = More than 60 days
custPurchaseCount	Integer (4)	N	Cardholder Account Purchase Count: Number of purchases with this cardholder account during the previous six months.
custProvisionAttemptsPerDay	Integer (3)	N	Number of Provisioning Attempts Per Day: Number of Add Card attempts in the last 24 hours.
. , , , , , , , , , , , , , , , , , , ,		Number of Transactions Per Day: Number of transactions (successful and abandoned) for this cardholder account with the	
custTxnActivityDay	Integer (3)	N	merchant across all payment accounts in the previous 24 hours.
Total Antibiotic Africa	Integer (2)	N.I	Number of Transactions Per Year: Number of transactions (successful and abandoned) for this cardholder account with the
custTxnActivityYear	Integer (3)	N	merchant across all payment accounts in the previous year.
custPaymentAccAge	Integer (8)	N	Payment Account Age: Date that the payment account was enrolled in the cardholder's account with the merchant.
custraymentaccage	integer (o)	IN	Date format = YYYYMMDD



Data Element	Data Type	Req	Description
	/ 1		Payment Account Age Indicator: Indicates the length of time that the payment account was enrolled in the cardholder's
		N	account with the merchant.
			Values accepted:
avet Daving and Apallant	String (enum)		01 = No account (guest check-out)
custPaymentAccInd			02 = During this transaction
			03 = Less than 30 days
			04 = 30–60 days
			05 = More than 60 days
custShipAddressUsage	String (8)	N	Shipping Address Usage: Date when the shipping address used for this transaction was first used with the merchant.
custsiiipAuuressosage	String (8)		Date format = YYYYMMDD
			Shipping Address Usage Indicator: Indicates when the shipping address used for this transaction was first used with the
		N	merchant.
			Values accepted:
custShipAddressUsageInd	String (enum)		01 = This transaction
			02 = Less than 30 days
			03 = 30–60 days
			04 = More than 60 days
			Shipping Name Indicator: Indicates if the Cardholder Name on the account is identical to the shipping Name used for this
	String (enum)	N N	transaction.
custShipNameIndicator			Values accepted:
			01 = Account Name identical to shipping Name
			02 = Account Name different than shipping Name
custSuspiciousAccActivity	String (enum)		Suspicious Account Activity: Indicates whether the merchant has experienced suspicious activity (including previous fraud)
			on the cardholder account.
			Values accepted:
			01 = No suspicious activity has been observed
			02 = Suspicious activity has been observed

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Appendix F merchantAuthInfo Data Elements Definitions

All parameters are required if the merchantAuthInfo object is included, except merchantAuthData, which is undefined in 3DS V2.x (See Description).

Data Element	Data Type	Req	Description
merchantAuthData	String (20000)	N	Merchant Authentication Data: Data that documents and supports a specific authentication process. For example, if merchantAuthMethod = 03, this element can carry information about the provider of the federated ID and related information. 06, this element can carry the FIDO attestation data (including the signature). 07, this element can carry FIDO Attestation data with the FIDO assurance data signed. 08, this element can carry the SRC assurance data. In the current version of the 3DS V2.x specification, this data element is not defined in detail, and therefore is optional. However, the intention is that for each merchant Authentication Method, this field should carry data that the ACS can use to verify the authentication process.
merchantAuthMethod	String (enum)	Y	Merchant Authentication Method: Mechanism used by the merchant to authenticate Cardholder. Values accepted: 01 = No merchant authentication occurred (i.e. cardholder "logged in" as guest) 02 = Login to the cardholder account in the merchant's system using merchant's own credentials 03 = Login to the cardholder account in the merchant's system using federated ID 04 = Login to the cardholder account in the merchant's system using issuer credentials 05 = Login to the cardholder account in the merchant's system using third-party authentication 06 = Login to the cardholder account in the merchant's system using FIDO Authenticator 07 = Login to the cardholder account in the merchant's system using FIDO Authenticator (FIDO assurance data signed) 08 = SRC Assurance Data Netcetera Constraint: Values '07' and '08' are only available when Netcetera initiates authentication with EMV 3DS 2.2.0 version or greater. In this instance, the threeDSPreferredProtocolVersion and enforcethreeDSPreferredProtocolVersion parameters should be set appropriately
merchantAuthTimestamp	String (12)	Υ	Merchant Authentication Timestamp: Date and time in UTC of the cardholder authentication. Date format = YYYYMMDDHHMM



Appendix G merchantPriorAuthInfo Data Elements Definitions

All parameters are required if the merchantPriorAuthInfo object is included, except merchantPriorAuthData, which is undefined in 3DS V2.x (See Description)

Data Element	Data Type	Req	Description
merchantPriorAuthData	String (2048)	N	Merchant Prior Transaction Authentication Data: Data that documents and supports a specific authentication process. In the current version of the specification this data element is not defined in detail, however the intention is that for each Merchant Authentication Method, this field carry data that the ACS can use to verify the authentication process. In future versions of the specification, these details are expected to be included.
merchantPriorAuthMethod	String (enum)	N	Merchant Prior Transaction Authentication Method: Mechanism used by the merchant to previously authenticate the Cardholder Values accepted: 01 = Frictionless authentication occurred 02 = Cardholder challenge occurred 03 = AVS verified 04 = Other Issuer methods
merchantPriorAuthTimestamp	String (12)	N	Merchant Prior Transaction Authentication Timestamp: Date and time in UTC of the prior cardholder authentication. Date format = YYYYMMDDHHMM
merchantPriorRef	String (36)	N	Merchant Prior Transaction Reference: This data element provides additional information to the Issuer to determine the best approach for handing a request. This data element contains the original <i>merchantTxId</i> for a prior authenticated transaction (for example, the first recurring transaction that was authenticated with the cardholder).

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Appendix H merchantRiskIndicator Data Elements Definitions

All parameters are optional, but should be supplied if the data is available to facilitate a Frictionless Flow

Data Element	Data Type	Req	Description
deliveryTimeframe	String (enum)	N	Delivery Timeframe: Indicates the merchandise delivery timeframe. Values accepted: 01 = Electronic Delivery 02 = Same day shipping 03 = Overnight shipping 04 = Two-day or more shipping
giftCardAmount	BigDecimal (15.2 or 15.3)	N	Gift Card Amount: For prepaid or gift card purchase, the purchase amount total of prepaid or gift card(s)
giftCardCount	Integer (2)	N	Gift Card Count: For prepaid or gift card purchase, total count of individual prepaid or gift cards/codes purchased.
giftCardCurr	String (3)	N	Gift Card Currency: For prepaid or gift card purchase, the ISO alpha-3 code for the currency as defined in the ISO 4217 standard
preOrderDate	String (8)	N	Pre-Order Date: For a pre-ordered purchase, the expected date that the merchandise will be available. Date format = YYYYMMDD
preOrderPurchaseInd	String (enum)	N	Pre-Order Purchase Indicator: Indicates if the Cardholder is placing an order for merchandise with a future availability or release date. Values accepted: 01 = Merchandise available 02 = Future availability
reorderItemsInd	String (enum)	N	Reorder Items Indicator: Indicates whether the cardholder is reordering previously purchased merchandise. Values accepted: 01 = First time ordered 02 = Reordered
shipIndicator	String (enum)	N	Shipping Indicator: Indicates shipping method chosen for the transaction. Merchants must choose the Shipping Indicator code that most accurately describes the cardholder's specific transaction, not their general business. If one or more items are included in the sale, use the Shipping Indicator code for the physical goods, or if all digital goods, use the Shipping Indicator code that describes the most expensive item. Values accepted: 01 = Ship to cardholder's billing address 02 = Ship to another verified address on file with merchant 03 = Ship to address that is different than the cardholder's billing address 04 = "Ship to Store" / Pick-up at local store (Store address shall be populated in shipping address fields) 05 = Digital goods (includes online services, electronic gift cards and redemption codes) 06 = Travel and Event tickets, not shipped 07 = Other (for example, Gaming, digital services not shipped, emedia subscriptions, etc.)



Appendix I external Authentication Data Elements Definition

Data Element	Data Type	Req	Description
authenticationValue	String (28)	Υ	The Authentication Value used to provide proof of authentication. This is a Payment System-specific value provided by the 3DS Process. Value accepted: A 20-byte value that has been Base64 encoded, giving a 28-byte result.
authenticationECI	String (2)	Υ	Payment System-specific value provided by the ACS or DS to indicate the results of authentication of the cardholder. Values accepted are Payment System specific
protocolVersion	String (8)	Y	The 3DS Protocol Version used to authenticate the transaction, returned by the authentication service Values accepted: '1.0' '2.1.0' '2.2.0'
threeDSServerTransId	String (28)	Υ	The 3DS Server Transaction Identifier that was returned by the authentication service
dsTransID	String (36)	С	The Directory Server (DS) Transaction Identifier that was returned by the authentication service Condition: Required if protocolVersion = '2.1.0'
acsTransId	String (36)	С	The Access Control Server (ACS) Transaction Identifier that was returned by the authentication service Condition: Required if cardOnFileInitiator = 'Merchant'
authenticationType	String (2)	С	The type of authentication Condition: Optional if protocolVersion = '2.1.0'
authenticationFlow	String (1)	С	A flag to indicate whether the authentication occurred as a result of a Frictionless or Challenge Flow Values accepted: 'F' = Frictionless Flow 'C' = Challenge Flow 'A' = AVS Only Condition: Optional if protocolVersion = '2.1.0'
transStatus	String (1)	С	Transaction Authentication Status that was returned by the authentication service Values accepted: 'Y' Authentication Verification Successful 'N' Not Authenticated/Account Not Verified; Transaction denied 'U' Authentication/Account Verification Could Not Be Performed; Technical or other problem 'A' Authentication Attempted; Not Authenticated/Verified, but a proof of attempt provided 'C' Challenge Required 'D' Decoupled Authentication Challenge Required 'R' Authentication/Account Verification Rejected 'I' Informational Only; 3DS Requestor challenge preference acknowledged



Data Element	Data Type	Req	Description
authenticationDateTime	String (12)	_	Date and time in UTC of the cardholder authentication
			Format: YYYYMMDDHHMM

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